AMENDMENTS TO THE CLAIMS

Please enter the following amendments to the claims.

1. (Currently Amended) A method for transferring a service announcement of Multimedia Broadcast/Multicast Service (MBMS), ~~comprises~~ the method comprising~~following steps~~:

(a) Broadcast/Multicast Service Center (BM_SC) requests Cell Broadcast Center (CBC) to send a ~~Service~~ service ~~Announcement~~ announcement message (MBMS announcement message), wherein said request ~~may include~~ includes sending times and sending time duration as parameters;

(b) ~~After~~ after receiving ~~a~~ the message from the BM_SC, the ~~Cell Broadcast Center (~~CBC~~)~~ commands a Universal Mobile Telecommunication System (UMTS) Terrestrial Radio Access Network (UTRAN) connected with ~~it~~ the CBC by a message to send the ~~service~~ MBMS announcement message;

(c) ~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ arranges ~~the~~ a time for sending the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message at one or more schedule periods according to ~~the~~a ~~requirement of Cell Broadcast Center (~~CBC~~)~~ requirement, adds a brief description information to a schedule message that describes each of the schedule periods and sends the schedule message; and

(d) ~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ sends the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ ~~service~~ announcement message.

2. (Currently Amended) The method according to claim 1, wherein transfer times in ~~the~~ step (a) can be a plurality of times or an infinite number of times.

3. (Currently Amended) The method according to claim 1, wherein after finishing sending the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ announcement message, the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ sends confirmation information to ~~Cell Broadcast Center (~~the CBC~~)~~.

4. (Currently Amended) The method according to claim 3, wherein after receiving the confirmation information from the UTRAN~~UTRANUTRAN~~, the ~~Cell Broadcast Center (~~CBC~~)~~ subsequently returns confirmation information to the ~~Broadcast/Multicast Service Center (~~BM_SC~~) subsequently~~.

5. (Currently Amended) The method according to claim 1, wherein in ~~the~~ step (b), according to ~~the~~ a requirement of the ~~Broadcast/Multicast Service Center (~~BM_SC~~)~~, the ~~Cell Broadcast Center (~~CBC~~)~~ ~~can require~~ requires the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ to send the service announcement periodically a plurality of times ~~or infinite times~~.

6. (Currently Amended) The method according to claim 1, wherein in ~~the~~ step (d), ~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ sends the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ announcement message a plurality of times according to the CBC requirement ~~of Cell Broadcast Center (CBC)~~, and ~~the~~ steps

(c) and ~~the step~~ (d) ~~can be~~ are repeated a plurality of times without a certain precedence order.

7. (Currently Amended) The method according to claim 1, wherein the service announcement message includes parameters of service types and service areas of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~)~~.

8. (Currently Amended) The method according to claim 7, wherein the step of ~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ sending a service announcement message that includes the service types and service areas of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~)~~ via the CBC ~~Cell Broadcast~~ further comprises ~~the following steps~~:

(1) a ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ Control Module (MBMSC) receives a signaling message from core network nodes Service GPRS Supporting Node (SGSN), CBC~~)~~, which informs ~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ to send the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ ~~service~~ announcement message;

(2) the ~~Multimedia Broadcast/Multicast Service Control Module (~~MBMSC~~)~~ requests a Broadcast/Multicast Control (BMC) protocol ~~(BMC)~~ to send the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ announcement message;

(3) the BMC constructs the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ ~~service~~ announcement message and saves ~~it~~ the MBMS announcement message in a sending memory block thereof, and starts up a counter for this message, wherein ~~a~~ an

initial value of the counter is equal to ~~the~~ a number of required times of sending the message, and if the MBMS announcement message is required to be sent infinite times, the initial value of the counter is assigned with zero or negative value;

(4) the BMC estimates a transmission rate (Vneed) needed on a Common Traffic Channel (CTCH) according to all ~~the~~ messages currently saved in the sending memory block, wherein all of the messages include the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ announcement messages and other broadcast messages, and if ~~the~~ an actual transmission rate (Vctch) on the CTCH is zero (0), ~~it means that this~~ the cell ~~hasn't~~ has not allocated CTCH resources and ~~it~~ won't continue to send broadcast message, and if the actual transmission rate (Vctch) is out of a required range ~~much smaller or larger than that needed~~ on the CTCH, the BMC reports ~~the~~ an actual required transmission rate to an Radio Resource Communication (RRC) with a primitive and requests the RRC to establish or adjust CTCH resources, and during ~~the~~ a period of BMC waiting for RRC configuring CTCH resources, if the actual transmission rate (Vctch) does not match with that needed but ~~it isn't~~ is not equal to zero: when the actual transmission rate (Vctch) is smaller than that needed, the BMC may still select some messages with high priority and short length to transfer; when the actual transmission rate (Vctch) is out of a required range~~much larger than that needed~~, the BMC also reports to the RRC, but at this time, resources on the CTCH exceeds ~~the~~ a requirement of message transmission, and are wasted;

(5) the RRC controls L1 and L2 with ~~a~~ the primitive to establish CTCH or adjust CTCH configuration so as to make CTCH transmission rate match, and informs the BMC of ~~the~~ new configuration parameters of CTCH with ~~a~~ the primitive, and only if

the actual transmission rate (Vctch) is not equal to zero, the BMC will still continue to send broadcast messages as described in step (4);

(6) the BMC adds descriptions for the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message to a pending-for-sending schedule message, and then arranges the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message on a specific position of the schedule period following the schedule message for future sending;

(7) the BMC sends the schedule message;

(8) the BMC sends the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message at ~~the~~ a prescribed time;

(9) ~~After~~ after reducing the counter's value by 1, the BMC ~~judges:~~ determines whether ~~if~~ the value of the counter is negative, in which case~~it means that~~ the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message is required to send for infinite times, then proceeding to step (10) after adding 1 to the value of the counter; if the value of the counter is positive, proceeding to step (10) directly; if the value is zero, ~~it means that~~ the times of sending the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message has met the requirement, then the BMC ~~return~~ returns ~~the~~ confirmation information to ~~Multimedia Broadcast/Multicast Service Control Module~~ (the MBMSC) and the process of sending the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement for ~~this~~ completed times ~~is completed~~; and

(10) BMC waits on-timing according to ~~the~~ a time interval that ~~Multimedia Broadcast/Multicast Service~~ (the MBMS) ~~service~~ announcement message is required to

send, and when ~~the~~ time expires for sending a next ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message, proceeding to step (6).

9. (Currently Amended) The method according to claim 7, wherein the step of a User Equipment (UE) receiving the service announcement message for the parameters of the service types and service areas of ~~Multimedia Broadcast/Multicast Service (MBMS)~~ via cell broadcast further comprises ~~the following steps~~:

(1) a ~~Multimedia Broadcast/Multicast Service (MBMS) Service~~ Control Module (MBMSC) sends a request for receiving ~~a~~the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message to BMC with a first primitive;

(2) ~~If~~ if the BMC has never received any broadcast message before, proceeding to step (3); otherwise, proceeding to step (9);

(3) the BMC informs the RRC to receive a broadcast message with a second primitive, which includes ~~the~~ parameters that can inform RRC to receive BMC preferred message at ~~the~~ a prescribed time and to skip some messages;

(4) ~~If~~ if the RRC has not configured a Common Traffic Channel (CTCH) before, the RRC configures link layer (L2) and physical layer (L1) to enable UE to receive information on the CTCH and ~~feedbacks~~ feeds back necessary CTCH configuration information with a third primitive to the BMC at the same time, thereafter proceeding to step (5); if the RRC has configured CTCH resources before, proceeding to step (5) directly;

(5) ~~According~~ according to ~~the~~ requirements ~~requirement~~ of the BMC, the RRC controls L2 and L1 with a fourth primitive to receive cell broadcast information on the

CTCH at the prescribed time;

(6) ~~After~~ after processing ~~the~~ a data frame received from the CTCH accordingly, L1 and L2 submit the data frame to BMC in the format of BMC message with a fifth primitive;

(7) BMC ~~analyses~~ analyzes the received message, and if the received message ~~it~~ is a ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message, the BMC forwards the received message ~~it~~ to ~~Multimedia Broadcast/Multicast Service Control Module (~~the MBMSC~~)~~ with a sixth primitive, and at the same time, reception of this time is completed; if it is not a ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message, proceeding to step (8);

(8) ~~If~~ if the message received by BMC is a schedule message, proceeding to step (9); otherwise, proceeding to step (3);

(9) if the BMC analyses the schedule message received most recently, and checks if the schedule period described by the schedule message includes the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message, if so, proceeding to step (12); otherwise, the BMC finds ~~the~~ a position of the next schedule message and requests the RRC to receive the next schedule message with the second primitive;

(10) the RRC controls L1 and L2 with the fourth primitive to receive the next schedule message at the prescribed time;

(11) ~~After~~ after processing the message received from the CTCH accordingly, L1 and L2 forward the schedule message to the BMC with the fifth primitive, and then proceeding to step (9);

(12) the BMC finds the position of the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message and requests the RRC with the second primitive to receive the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message at the prescribed time;

(13) the RRC controls L1 and L2 with the fourth primitive to receive ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message at the prescribed time;

(14) ~~After~~ after processing the message received from the CTCH accordingly, L1 and L2 forward the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message to the BMC with the fifth primitive; and

(15) the BMC forwards the ~~Multimedia Broadcast/Multicast Service (MBMS)~~ service announcement message to the ~~Multimedia Broadcast/Multicast Service (MBMS) Control Module (MBMSC)~~ with the third primitive and the reception for this time is completed.

10. (Currently Amended) A method for transferring a service notification of Multimedia Broadcast/Multicast Service (MBMS), the method comprising ~~comprises the following steps~~:

(a) a Broadcast/Multicast Service Center (BM_SC) sends ~~Multimedia Broadcast/Multicast Service (MBMS)~~ data to a Gateway General Packet Radio Service (GPRS) Supporting Node (GGSN) ~~;~~;

(b) ~~After~~ after receiving the data sent by BM_SC, the GGSN sends the data to a Service GPRS Supporting Node (SGSN);

(c) ~~After~~ after receiving ~~the~~ signals from the GGSN, the SGSN informs a Universal Mobile Telecommunication System (UMTS) Terrestrial Radio Access Network (UTRAN) of ~~the~~ forthcoming ~~of the Multimedia Broadcast/Multicast Service~~ (MBMS) data via a signaling message;

(d) establishing a Radio data Access Bearer (RAB) ~~is established~~ between ~~UMTS Terrestrial Radio Access Network~~ (the UTRAN) and SGSN;

(e) the SGSN sends the ~~Multimedia Broadcast/Multicast Service~~ (MBMS) data to the ~~UMTS Terrestrial Radio Access Network~~ (UTRAN) via the ~~radio data access bearer~~ (RAB);

(f) ~~After~~ after receiving ~~the~~ data from the SGSN, the ~~UMTS Terrestrial Radio Access Network~~ (UTRAN) arranges time for sending ~~the~~ a ~~Multimedia Broadcast/Multicast Service~~ (MBMS) ~~service~~ notification message;;

(g) the ~~UMTS Terrestrial Radio Access Network~~ (UTRAN) sends the ~~Multimedia Broadcast/Multicast Service~~ (MBMS) ~~service~~ notification message at a prescribed time;

(h) a User Equipment (UE) requests the UTRAN to allocate radio resources ~~(RB)~~ via a signaling message, and a plurality of other UEs can send requests to ~~UMTS Terrestrial Radio Access Network~~ (the UTRAN);

(i) ~~UMTS Terrestrial Radio Access Network~~ (the UTRAN) allocates a ~~radio~~ Radio ~~bearer~~ Bearer (RB) according to ~~the~~ a number of UEs; and

(j) ~~UMTS Terrestrial Radio Access Network~~ (the UTRAN) sends the ~~Multimedia Broadcast/Multicast Service~~ (MBMS) data to the UE via the RB.

11. (Currently Amended) The method according to claim 10, wherein ~~the~~ step (e), step (f) and step (g) can be performed without a certain precedence order.

12. (Currently Amended) The method according to claim 10, wherein the service notification message indicates ~~the~~ a forthcoming of specific ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ data and includes relevant parameters related to the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~.

13. (Currently Amended) The method according to claim 12, wherein the step of the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ sending the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ notification message via cell broadcast further comprises ~~the following steps~~:

(1) a ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ Service Control Module (MBMSC) receives a signaling message sent from a core network node (~~SGSN, CBC~~), which informs the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ to perform ~~the~~ a process of ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ notification;

(2) ~~Multimedia Broadcast/Multicast Service Control Module (~~the MBMSC~~)~~ requests a Broadcast/Multicast Control ~~protocol~~ (BMC) protocol to send the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ notification message;

(3) the BMC constructs the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ service notification message and saves ~~it~~ the message in a sending memory block thereof;

(4) the BMC estimates a transmission rate (Vneed) needed on a Common Traffic Channel (CTCH) according to all the messages currently saved in the sending memory block, all the messages ~~include~~ including the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ notification messages;

(5) the RRC controls L1 and L2 with a primitive to establish the CTCH or adjust the CTCH configuration so as to make a CTCH transmission rate match with the transmission rate needed (Vneed), and informs the BMC of the new CTCH configuration parameters ~~of CTCH~~;

(6) the BMC adds descriptions for the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ notification message to a pending-for-sending schedule message, and then the BMC arranges the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ notification message on a specific position of a schedule period following the schedule message for future sending;

(7) the BMC sends the schedule message; and

(8) the BMC sends the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ notification message at the prescribed time.

14. (Currently Amended) The method according to claim 12, wherein the step of UE receiving the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ notification message via cell broadcast further comprises ~~the following steps~~:

(1) a Multimedia Broadcast/Multicast Service Control Module (MBMSC) sends a request to a Broadcast/Multicast Control (BMC) with a first primitive for receiving a service announcement message or a service notification message of

~~Multimedia Broadcast/Multicast Service~~ the (~~MBMS~~);

(2) ~~If~~ if the BMC hasn't received any broadcast message before, proceeding to step (3); otherwise, proceeding to step (9);

(3) the BMC informs the RRC to receive broadcast message with a second primitive, which includes the parameters that can inform RRC only to receive a BMC preferred message at the prescribed time and to skip some messages;

(4) ~~If~~if the RRC has not configured a Common Traffic Channel (CTCH) before, the RRC configures link layer (L2) and physical layer (L1) to enable the UE to receive information on the CTCH and ~~feedbacks~~ feeds back necessary CTCH configuration information with a third primitive to the BMC at the same time, thereafter proceeding to step (5); if the RRC has configured CTCH resources before, proceeding to step (5) directly;

(5) ~~According~~ according to ~~the~~ a requirement of the BMC, the RRC controls L2 and L1 with a fourth primitive to receive cell broadcast information on the CTCH at the prescribed time;

(6) ~~After~~ after processing the data frame received from the CTCH accordingly, L1 and L2 submit ~~it~~ the data frame to the BMC in the format of a BMC message with a fifth primitive;

(7) the BMC analyses the received message, and if ~~it~~ the received message is the service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service~~ (the MBMS), the BMC forwards ~~it~~ the message to the ~~Multimedia Broadcast/Multicast Service Control Module~~ (MBMSC) with a sixth primitive, at the same time the reception is completed; if it is not the service

announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~)~~, proceeding to step (8);

(8) ~~If~~ if the message received by the BMC is the schedule message, proceeding to step (9); otherwise, proceeding to step (3);

(9) the BMC analyses the schedule message that was received most recently, and checks whether the schedule period described by the schedule message includes the service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~) or not~~, and if it ~~is positive~~included, proceeding to step (12), otherwise, the BMC finds ~~the~~ a position of ~~THE~~ a next schedule message and requests the RRC to receive the next schedule message with the second primitive;

(10) the RRC controls L1 and L2 to receive the next schedule message at the ~~prescribe~~ prescribed time with the fourth primitive;

(11) ~~After~~ after processing the message received from the CTCH accordingly, L1 and L2 forward the schedule message to the BMC with the fifth primitive, and then proceeding to step (9);

(12) the BMC finds the position of the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ service announcement message or service notification message, and requests the RRC to receive ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message or service notification message at the prescribed time with the second primitive;

(13) the RRC controls L1 and L2 to receive the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message or service

notification message at the prescribed time with the fourth primitive;

(14) ~~After~~ after processing the message received from the CTCH accordingly, L1 and L2 forward the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message or service notification message to the BMC with the fifth primitive;

(15) the BMC forwards the ~~Multimedia Broadcast/Multicast Service (MBMS)~~ service announcement message or service notification message to the ~~Multimedia Broadcast/Multicast Service (MBMS)~~ with the third primitive and the reception is completed.

15. (Currently Amended) A method for transferring a service notification of broadcast service in Multimedia Broadcast/Multicast Service (MBMS), the method comprising ~~comprises the following steps~~:

(a) a Broadcast/Multicast Service Center (BM_SC) ~~sends~~ sending ~~the Multimedia Broadcast/Multicast Service (MBMS)~~ data to a Gateway General Packet Radio Service (GPRS) Supporting Node (GGSN);

(b) ~~After~~ after receiving said data sent by the BM_SC, the GGSN sends said data to a Service GPRS Supporting Node (SGSN) by tunneling technique;

(c) ~~After~~ after receiving ~~the~~ signals from the GGSN, the SGSN informs a Universal Mobile Telecommunication System (UMTS) Terrestrial Radio Access Network (UTRAN) of ~~the~~ forthcoming ~~of the Multimedia Broadcast/Multicast Service (MBMS)~~ data via a signaling message;

(d) establishing a Radio data Access Bearer (RAB) between the ~~UMTS~~

~~Terrestrial Radio Access Network (~~UTRAN~~)~~ and the SGSN;

(e) sending by the SGSN ~~sends the Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ data to the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ via Radio data Access Bearer RAB;

(f) arranging by the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ ~~arranges the~~ a sending time of a ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ ~~service~~ notification message;

(g) sending by the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ ~~sends~~ the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ ~~service~~ notification message;

(h) allocating by the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ ~~allocates~~ a ~~the radio~~ Radio ~~bearer~~ Bearer (RB) according to ~~the~~ a number of UEs; and

(i) sending by the UTRAN ~~sends the Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ data to the UE via the RB.

16. (Currently Amended) The method according to claim 15, wherein that the step of ~~UMTS Terrestrial Radio Access Network (UTRAN)~~ sending the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ service notification via cell broadcast further comprises ~~the following steps~~:

(1) an ~~Multimedia Broadcast/Multicast Service~~ MBMS Control Module (MBMSC) receives ~~the~~a signaling message sent from ~~the~~ core network nodes ~~(SGSN, CBC)~~, which ~~informs~~ inform the ~~UMTS Terrestrial Radio Access Network (~~UTRAN~~)~~ to send a service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service (~~MBMS;

(2) the ~~Multimedia Broadcast/Multicast Service Control Module (~~MBMSC~~)~~ requests Broadcast/Multicast Control ~~protocol (~~BMC) protocol with a primitive to send the service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service~~ the ~~(~~MBMS;

(3) the BMC constructs the service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~;

(4) the BMC estimates ~~the~~ a transmission rate (Vneed) needed on ~~the~~ a Common Traffic Channel (CTCH);

(5) the RRC controls L1 and L2 with a primitive to establish the CTCH or adjust CTCH configuration to make a CTCH transmission rate match;

(6) the BMC adds descriptions for the service announcement message or service notification message of the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ to a pending-for-sending schedule message; and

(7) the BMC sends the schedule message; and

(8) the BMC sends the service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~)~~ at ~~the~~ a prescribed time.

17. (Currently Amended) The method according to claim 15, wherein the step of a User Equipment (UE) receiving the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ notification message via ~~Cell~~ cell ~~Broadcast~~ broadcast further comprises ~~the following steps~~:

(1) an ~~Multimedia Broadcast/Multicast Service~~ MBMS Control Module

(MBMSC) sends a request to the BMC with a first primitive for receiving a service announcement message or a service notification message of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~)~~;

(2) ~~If~~ if the BMC hasn't received any broadcast message before, proceeding to step (3); otherwise, proceeding to step (9);

(3) the BMC informs the RRC to receive broadcast message with a second primitive, which includes the parameters that can inform the RRC only to receive a BMC preferred message at the prescribed time and to skip some messages;

(4) ~~If~~ if the RRC has not configured the CTCH before, the RRC configures link layer (L2) and physical layer (L1) to enable UE to receive information on the CTCH and ~~feedbacks~~ feeds back necessary CTCH configuration information with a third primitive to the BMC at the same time, thereafter proceeding to step (5); if the RRC has configured CTCH resources before, proceeding to step (5) directly;

(5) ~~According~~ according to the requirement of the BMC, the RRC controls L2 and L1 with a fourth primitive to receive cell broadcast information on the CTCH at the prescribed time;

(6) ~~After~~ after processing the data frame received from the CTCH accordingly, L1 and L2 submit ~~it~~ the data frame to the BMC in ~~the~~ a format of a BMC message with a fifth primitive;

(7) the BMC ~~analyses~~ analyzes the received message, and if the received message ~~it~~ is the service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~)~~, the BMC forwards the received message ~~it~~ to the ~~Multimedia Broadcast/Multicast Service Control Module (~~MBMSC~~)~~

with a sixth primitive, at the same time the reception is completed; if the received message ~~it~~ is not the service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~)~~, proceeding to step (8);

(8) ~~If~~ if the message received by the BMC is the schedule message, proceeding to step (9); otherwise, proceeding to step (3);

(9) the BMC analyzes ~~analyses~~ the schedule message that was received most recently~~,~~ and checks whether the schedule period described by the schedule message includes the service announcement message or service notification message of ~~Multimedia Broadcast/Multicast Service (~~the MBMS~~) or not~~, and if the schedule message ~~it~~ is positive, proceeding to step (12), otherwise, the BMC finds the position of ~~the~~ a next schedule message and requests the RRC to receive the next schedule message with the second primitive;

(10) the RRC controls L1 and L2 to receive the next schedule message at the ~~prescribe~~ prescribed time with the fourth primitive;

(11) ~~After~~ after processing the message received from the CTCH accordingly, L1 and L2 forward the schedule message to the BMC with the fifth primitive, and then proceeding to step (9);

(12) the BMC finds the position of the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ announcement message or ~~service~~ notification message, and requests the RRC to receive ~~Multimedia Broadcast/Multicast Service (~~MBMS~~) service~~ announcement message or ~~service~~ notification message at the prescribed time with the second primitive;

(13) the RRC controls L1 and L2 to receive the ~~Multimedia~~

~~Broadcast/Multicast Service (MBMS) service~~ announcement message or ~~service~~ notification message at the prescribed time with the fourth primitive;

(14) ~~After~~ after processing the message received from the CTCH accordingly, L1 and L2 forward the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message or ~~service~~ notification message to the BMC with the fifth primitive;

(15) the BMC forwards the ~~Multimedia Broadcast/Multicast Service (MBMS) service~~ announcement message or ~~service~~ notification message to the ~~Multimedia Broadcast/Multicast Service (MBMS)~~ with the third primitive and the reception is completed.

18-19. (Cancelled)

20. (Currently Amended) A method of sending Multimedia Broadcast/Multicast Service (MBMS) broadcast service data in a communication system, the method comprising ~~comprises the following steps~~:

sending by a Universal Mobile Telecommunication System (UMTS) Terrestrial Radio Access Network (UTRAN) ~~sends~~ a service announcement message that includes ~~the~~ parameters of ~~the~~ service types and service areas of ~~Multimedia Broadcast/Multicast Service (MBMS)~~ via cell broadcast;

~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ and ~~the~~ apparatuses of a ~~in~~ core network co-establish network resources for the ~~Multimedia Broadcast/Multicast Service (MBMS)~~ broadcast service;

~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ sends service notification information for ~~the~~ arrival of the Multimedia Broadcast/Multicast ~~Service~~ ~~(~~MBMS~~)~~ data via cell broadcast;

~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ sends the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ multicast service data; and

~~UMTS Terrestrial Radio Access Network (~~the UTRAN~~)~~ and other apparatuses in the core network co-release network resources used for the ~~Multimedia Broadcast/Multicast Service (~~MBMS~~)~~ broadcast service.

21. (Cancelled)